T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8

1st and final bill:

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496256

Serial No. Premeasurements.

Name of Work Improvements to drains From of cross road of To hoodi Muneshwara layout in ward no.07, by alarayanapura.

Name of Contractor of nature of Agency

Date of commencement of work : A. Hemadri reddy.

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Est cost:	20.00 lakhs.					
	Job code:	007-18-	000079				
	Head of account:	P1771					
	A.S.No:-	AS | CE(VNK) | 324 | 18-19; dt:				08.02.18	
	T.S.No:-	TS | EE(BTP) | 28 | 18-19; dt:				23.07.18	
	Agr no:-	No.EE | BTP | Agr | 154 | 18-19;				dt: 22.10.18	
	Work order no:-	No.EE | BTP | WO | 154 | 18-19;				dt: 22.10.18	

MEASUREMENT BOOK

MAIN BILL:

Date	Date of recording: Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 01:- Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an avg lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled complete as per specifications.						
	Qty vide page no. 496257 →					266.67 cum	
	At the rate of Rs. 79.71 →						21256.27
	Item No 09:- loading and unloading charges.,						
	Qty vide Item no. 01 →					266.67 cum	
	At the rate of Rs. 97.21 →						25922.90

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No 02:- Providing and
	mix 1:4:8 using 40mm
	mixed, concrete laid i
	foundation and plinth
	machinery, curing co
	Qty vide page
	At the rate o

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
		...al means in ordinary	
		...now upto 2m and an avg	
		...led and sides neatly	
		...ded complete as per	
		...66.67 cum)	21256.27
		...;	
		...1 cum	25922.90

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496262

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No02:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms. th well compacted in foundation and plinth, including cost of all materials labour, hire of machinery, curing complete as per specification.						
	Qty vide page no. 496258 →					55.31 cum	
	At the rate of Rs. 4731.33 →						261689.85

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.03:- Providing TMT steel reinforcement for R.C.C. works including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design.,						
	Qty vide page no. 496260 →			4.75	tonne		
	At the rate of Rs. 58917.64 →					279858.80	
	Item No.04:- Providing and removing centering, shuttering, struting, propping etc. for columns, pillars, piers, abutments, post and struts, square/rectangular slabs/sidewalls, polygon in plan including cost of materials, labour complete.,						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	Qty vide
	At the rate
	Item No.05:- Providing
	mix M20 with OPC
	granite metal co
	@0.459 cum with
	re-affirmed - 200
	15cms thick, vibrat
	level for roof slabs,

NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		rt for R.C.C. works including hooking, placing in position, required, tying with binding ning members wherever ., → 4.75 tonne	2738858.80
		entering, shuttering, struthing, s, piers, abutments, post and / sidewalls, polygon in plan ur complete.,	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496263

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty vide page no. 496261 →			705.60 sqm			251052.50
	At the rate of Rs. 355.80 →						
	Item No 005:- Providing and laying in position reinforced cement concrete of design mix M30 with OPC cement @ 320 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 re-affirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase lintels, retaining walls, including attached						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	plasters columns piers abutments pillars posts struts buttresses string or facing courses parapets copings, bed blocks, plain window cills fillets etc, including cost of all materials labour HOM of machinery curing complete as per specifications.						
	RCC-drain - Bottom:-						
	cross road:						
	0-13	01	13.0	0.75	0.15	= 1.46	
	0-30	01	30.0	0.75	0.15	= 3.38	
	30-55	01	25.0	0.75	0.15	= 2.81	
	CRFC.						
	n.o. (2.2)						
	1st cross road						
	0-30	01	30.0	0.75	0.15	= 6.75	
	30-60	01	30.0	0.75	0.15	= 6.75	
	60-68	01	8.0	0.75	0.15	= 1.80	
						22.95	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	3rd cross road: 0-30 30-60 60-90 90-107
	CRFC.
	n.o. (2.2)
	SIDEWALL:- 0-13 0-30 30-55 0-30 30-6 60-68

BOOK

ns		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
ars	parts	struts buttresses	
pin gr	, bed	blocks, plain	
ost of	all materials	labour	
s per	specifications.		
0·75	0·15 =	1·46	
0·75	0·15 =	3·38	
0·75	0·15 =	2·81	
0·75	0·15 =	6·75	
0·75	0·15 =	6·75	
0·75	0·15 =	1·80	

22.95

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496264

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	3rd cross road:					22·95	
	0-30	01	30·0	0·75	0·15 =	3·38	
	30-60	01	30·0	0·75	0·15 =	3·38	
	60-90	01	30·0	0·75	0·15 =	3·38	
	90-107	01	17·0	0·75	0·15 =	1·91	
						34·99 cum	
	C/F C.						
	n.s. (22.95)						
	SIDEWALL:-						
	0-13	01×2	13	0·15	0·45 =	1·76	
	0-30	1×2	30	0·15	0·45 =	4·05	
	30-55	1×2	25	0·15	0·45 =	3·38	
	0-30	2×2	30·0	0·15	0·60 =	10·80	
	30-60	2×2	30·0	0·15	0·60 =	10·80	
	60-68	2×2	8·0	0·15	0·60 =	2·88	
						68.67	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents 68.67	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	0-30	1×2	30.0	0.15	0.60	= 5.40	
	30-60	1×2	30.0	0.15	0.60	= 5.40	
	60-90	1×2	30.0	0.15	0.60	= 5.40	
	90-107	1×2	17.0	0.15	0.60	= 3.06	
						52.92 cum	
				Total:-		87.91 cum	
	Qty Ltd to 86.29 cum						
	At the rate of Rs. 5843.44 →					504230.45	
	Asstt Engg. N.D						
	AE (NT)						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	Item No. 07:- Providi
	using reinforced
	~~reinf~~ down size i
	bending machine
	well compacted co
	cross road:-
	0-
	0-3
	30-
	1st cross road:-
	0-3
	30-

NT BOOK

ensions		Contents 68.67	Reference to last Measurement
Breadth 5	Depth 6	7	8
0.15 -	0.60	= 5.40	
0.15	0.60	= 5.40	
0.15	0.60	= 5.40	
0.15	0.60	= 3.06	
		52.92 cum	
Total:-		87.91 cum	
		5042 30.45	

Hqtrs. N D
DE (Off)

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

496265

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2		Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 07:- Providing and fixing 10cms thick pre-cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm & ~~reinf~~ down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm thick well compacted cost of all materials labour curing complete.,							
	cross road:-	0-13	30	0.60	0.75	-	= 13.50	
		0-30	55	0.60	0.75	-	= 24.75	
		30-55	50	0.60	0.75	-	= 22.50	
	1st cross road:-	0-30	80	0.60	0.75	-	= 36.00	
		30-60	80	0.60	0.75	-	= 36.00	
							132.75	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		60-75	25	0.60	0.75	- = 11.25	
	3rd cross road:	0-30	55	0.60	0.75	- = 24.75	
		30-60	55	0.60	0.75	- = 24.75	
		60-90	55	0.60	0.75	- = 24.75	
		90-107	35	0.60	0.75	- = 15.75	
					Total =	234.0 sqm	
	Qty ltd to. 221.25 sqm						
	At the rate of Rs. 1925.91 →					426107.60	
						AE/AEE/JE. N.D	
						DE(WH)	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No.06:- Providing an 1:2:4 with cement @ 24 coarse aggregates @ mixed concrete laid in foundation, plinth
	Cross road: 0-13
	0-30
	30-55
	1st cross road: 0-30
	30-60

epth 6	Contents 7	Reference to last Measurement 8
	132.75	
	=10.25	
	= 24.75	
	= 24.75	
	= 24.75	
	= 15.75	
=	234.0 sqm	
	426107.60	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496266

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No 06:- Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459 cum, machine mixed concrete laid in layers not exceeding 15cms, thick well compacted in foundation, plinth and cills including cost of all materials.,						
	Cross road: 0-13	01	13.0	0.30	0.10	= 0.39	
	0-30	01	30.0	0.30	0.10	= 0.90	
	30-55	01	25.0	0.30	0.10	= 0.75	
	1st cross road: 0-30	2	30.0	0.30	0.10	= 1.80	
	30-60	2	30.0	0.30	0.10	= 1.80	
						5.64.	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	60-68	2	8.0	0.30	0.10	= 0.48	
	3rd cross road:- 0-30	01	30.0	0.30	0.10	= 0.90	
	30-60	01	30.0	0.30	0.10	= 0.90	
	60-90	01	30.0	0.30	0.10	= 0.90	
	90-107	01	17.0	0.30	0.10	= 0.51	
						9.33 cum	
	Qty ltd to 8.25 cum						43636.95
	At the rate of Rs. 5289.33 →						
	C&Spec						
	Item No 68. Providing and fixing MS grating:	10	-	-	-	= 10 nos	865.10
	At the rate of Rs. 86.51 →						

Assistant Executive Engineer,
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore

Mrtpl Lly. N-D
DE(LT)

1963 1107

Serial No. .....
Name of Work .....
Name of Contractor of
Date of commencement

Date	Full descripti
1	2

Certificate
1). certified
2). certified
Mrtpl

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496267

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						Total =	1814620.45

Asst plg. N.D
AE (WT)
24/12/18

Certificate:

1). certified that the contractor has completed the work satisfactorily.

2). certified that debris has been removed from the work spot.

Asst plg. N.D
AE(WT)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
0	0.10	= 0.48	
0	0.10	= 0.90	
0	0.10	= 0.90	
0	0.10	= 0.90	
0	0.10	= 0.51	
		9.33 cum	
			43636.95
		10nos	
			865.10

.N.D
(WT)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Royalty charges:		coarse		Fine		
Sl. No.	Details	coeff	qty	coeff	qty.		
02.	40mm - 55.31 cum	0.96	53.09	0.48	26.55		
05	M20 - 86.29 cum	0.85	73.35	0.416	35.89		
06.	20mm - 8.25 cum	0.90	7.43	0.45	3.71		
	Total =		133.87		66.15		
	Abstract-						
1)	coarse-aggregate: 133.87 x 108/cum				= 14454.70		
2)	fine-aggregate: 66.15 x 103/cum				= 6813.45		
					21268.15		

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	(2x68m)
	(13m)
	Koda... ramesh... temple
	Asstt. Eng. N.D. AE (NH)

towards NH

OK

Depth 6	Contents 7	Reference to last Measurement 8
qty.		
26.55		
35.89		
3.71		
66.15		
54.70		
3.45		
68.15		

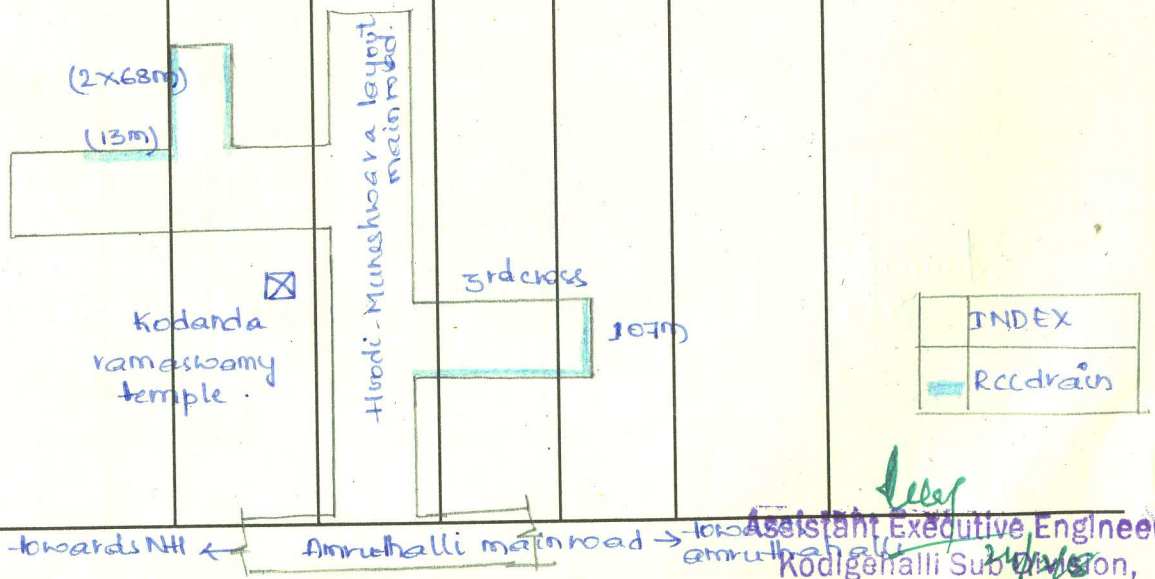
M. A. R. 57 (Rule 116)
Measurement Book

No. B

496268

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8



Assistant Executive Engineer.
Kodigehalli Sub Division,

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						Total Rs: 1814620-00	
						IT- 18146-00	
						CM- 18146-00	
						CBF- 1815-00	
						LR- 21268-00	
						CGST- 16202-00	
						SGST- 16202-00	
						Add: 91779-00	
						Cheque: 17,22,841-00.	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 18,14,620-00

ಗಳ ಮಾನ: ಮಾಯಿಸಿ: ಇದರಲ್ಲಿ ರೂ. 91779-00

ಮೊತ್ತವಾಗಿ ಮಾಯಿಸಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 17,22841-00.

Rs: Seventeen Lakh. twenty two thousand eight hundred forty one only.

ಬೆಳ ಮಾಡಿದ ನಿರ್ಧಾರಗಳು

Vinay

ಲೆಕ್ಕಾಧಿಕಾರಿ

Edwards

05/01

Serial No. .....

Name of Work ..... F

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3